



PATENT ABSTRACTS OF JAPAN

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(54) ROLLING BEARING

(57) Abstract:

PROBLEM TO BE SOLVED: To extend the life of the bearing even if oscillating motion is performed at low speed under the vacuum environment.

SOLUTION: Surface layers 1a, 2a, 3a made of a fluorine containing polymer are formed on a ball 1, an inner ring 2, and an outer ring 3. Fluorine grease 6 is filled so that the film of the grease 6 occupies the capacity of 5% or less in a bearing inner space capacity. Since the surface layers 1a, 2a, 3a of the fluorine containing polymer and the fluorine grease 6 are made of fluorine, wettability is improved. Even if the fluorine grease 6 is eliminated, it is possible to prevent both metals from being brought into contact with each other by the surface layers 1a, 2a, 3a.

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